ABSTRACT OF WARD NO. 09

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BRUHAT BANGALORE MAHANAGARA PALIKE

PREPARATION OF DPR FOR PACKAGE NO. 03

(PACKAGE CONSISTS OF 21 WORKS IN WARD NO 08 AND WARD NO 09)

Sl No.	List of Roads
1	Improvements to Roads and Drains in Kodigehalli Village Gramatana Ward No. 08 (Kodigehalli), Kodigehalli Sub Division.
2	Improvements and development of parks at Kodigehalli Ward No. 08 (Kodigehalli), Kodigehalli Sub Division.
3	Improvements of Roads and drains at Defense Colony and CQAL Layout at Kodigehalli Ward No. 08 (Kodigehalli), Kodigehalli Sub Division
4	Improvements of Roads and drains at Muneshwara Block at Kodigehalli Ward No. 08 (Kodigehalli), Kodigehalli Sub Division.
5	Improvements of Roads and drains at Maruthinagara, Bhadrappa Layout at Kodigehalli Ward No. 08 (Kodigehalli), Kodigehalli Sub Division.
6	Improvements of Roads and drains to Railway Track to Tatanagara BESCOM Office road at Kodigehalli Ward No. 08 (Kodigehalli), Kodigehalli Sub Division.
7	Improvements of Roads and drains at Shanbog Narayanappa Layout at Kodigehalli Ward No. 08 (Kodigehalli), Kodigehalli Sub Division.
8	Improvements of Roads and drains at Balaji Layout at Kodigehalli Ward No. 08 (Kodigehalli), Kodigehalli Sub Division.
9	Improvements of Roads and drains at Lottegollahalli at Kodigehalli Ward No. 08 (Kodigehalli), Kodigehalli Sub Division.
10	Improvements of Roads and drains at B.B.Nagara at Kodigehalli Ward No. 08 (Kodigehalli), Kodigehalli Sub Division.
11	Improvements of Roads and drains at Kodigehalli Ward No. 08 (Kodigehalli), Kodigehalli Sub Division.

ABSTRACT ESTIMATE

Sl. No.	Description of Work	Unit	Quantity	Rate in Figures	Rate in Words
1	Earthwork excavation by manual means in ordinary soil involving an average horizontal throw upto 2meters and an average lift upto 1.5 m, excavated surface leveled and sides neatly dressed, the disposed earth to be levelled neatly after breaking of clods complete as per specifications and as per the directions of the Engineer-in-charge of the work .	Cum	7079.90	86.92	615384.6472
a	Improvements to Roads and Drains in Kodigehalli Village Gramatana Ward No. 08 (Kodigehalli), Kodigehalli Sub Division.		100.72		
b	Improvements and development of parks at Kodigehalli Ward No. 08 (Kodigehalli), Kodigehalli Sub Division.		1186.30		
c	Improvements of Roads and drains at Defense Colony and CQAL Layout at Kodigehalli Ward No. 08 (Kodigehalli), Kodigehalli Sub Division		1131.80		
d	Improvements of Roads and drains at Muneshwara Block at Kodigehalli Ward No. 08 (Kodigehalli), Kodigehalli Sub Division.		377.67		
e	Improvements of Roads and drains at Maruthinagara, Bhadrappa Layout at Kodigehalli Ward No. 08 (Kodigehalli), Kodigehalli Sub Division.		540.51		
f	Improvements of Roads and drains to Railway Track to Tatanagara BESCOM Office road at Kodigehalli Ward No. 08 (Kodigehalli), Kodigehalli Sub Division.		747.00		

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g	Improvements of Roads and drains at Shanbog Narayanappa Layout at Kodigehalli Ward No. 08 (Kodigehalli), Kodigehalli Sub Division.		597.12		
h	Improvements of Roads and drains at Balaji Layout at Kodigehalli Ward No. 08 (Kodigehalli), Kodigehalli Sub Division.		775.22		
i	Improvements of Roads and drains at Lottegollahalli at Kodigehalli Ward No. 08 (Kodigehalli), Kodigehalli Sub Division.		497.32		
j	Improvements of Roads and drains at B.B.Nagara at Kodigehalli Ward No. 08 (Kodigehalli), Kodigehalli Sub Division.		547.53		
k	Improvements of Roads and drains at Kodigehalli Ward No. 08 (Kodigehalli), Kodigehalli Sub Division.		578.71		
2	**Lead for disposal of earth shall be payable at Carriage rates (Lead & Lift) by mechanical means including loading and unloading up to 15kms as per the directions of the Engineer-in-charge of the work .**	**Cum**	**8713.68**	**122.96**	**1071433.785**
a	Improvements to Roads and Drains in Kodigehalli Village Gramatana Ward No. 08 (Kodigehalli), Kodigehalli Sub Division.		422.14		
b	Improvements and development of parks at Kodigehalli Ward No. 08 (Kodigehalli), Kodigehalli Sub Division.		1186.30		
c	Improvements of Roads and drains at Defense Colony and CQAL Layout at Kodigehalli Ward No. 08 (Kodigehalli), Kodigehalli Sub Division		1372.71		
d	Improvements of Roads and drains at Muneshwara Block at Kodigehalli Ward No. 08 (Kodigehalli), Kodigehalli Sub Division.		577.13		
e	Improvements of Roads and drains at Maruthinagara, Bhadrappa Layout at Kodigehalli Ward No. 08 (Kodigehalli), Kodigehalli Sub Division.		568.80		
f	Improvements of Roads and drains to Railway Track to Tatanagara BESCOM Office road at Kodigehalli Ward No. 08 (Kodigehalli), Kodigehalli Sub Division.		773.21		
g	Improvements of Roads and drains at Shanbog Narayanappa Layout at Kodigehalli Ward No. 08 (Kodigehalli), Kodigehalli Sub Division.		615.89		
h	Improvements of Roads and drains at Balaji Layout at Kodigehalli Ward No. 08 (Kodigehalli), Kodigehalli Sub Division.		775.22		
i	Improvements of Roads and drains at Lottegollahalli at Kodigehalli Ward No. 08 (Kodigehalli), Kodigehalli Sub Division.		576.77		
j	Improvements of Roads and drains at B.B.Nagara at Kodigehalli Ward No. 08 (Kodigehalli), Kodigehalli Sub Division.		589.21		
k	Improvements of Roads and drains at Kodigehalli Ward No. 08 (Kodigehalli), Kodigehalli Sub Division.		1256.31		
3	**Removing and refixing stone slabs of drains and pointing in CM (1:3) as per the directions of the Engineer-in-charge of the work .**	**Sqm**	**11150.96**	**80.56**	**898320.9348**
a	Improvements to Roads and Drains in Kodigehalli Village Gramatana Ward No. 08 (Kodigehalli), Kodigehalli Sub Division.		939.60		
b	Improvements and development of parks at Kodigehalli Ward No. 08 (Kodigehalli), Kodigehalli Sub Division.		7485.12		

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f	Improvements of Roads and drains to Railway Track to Tatanagara BESCOM Office road at Kodigehalli Ward No. 08 (Kodigehalli), Kodigehalli Sub Division.		689.76		
g	Improvements of Roads and drains at Shanbog Narayanappa Layout at Kodigehalli Ward No. 08 (Kodigehalli), Kodigehalli Sub Division.		2036.48		
4	**Providing granite slabs of selected quality roughly dressed havinf a size of 7.5 cms thick and fixed in cement mortar (1:6) including fixing curing ete., complete as per the directions of the Engineer-in-charge of the work .**	**Sqm**	**3020.90**	**665.68**	**2010949.384**
a	Improvements to Roads and Drains in Kodigehalli Village Gramatana Ward No. 08 (Kodigehalli), Kodigehalli Sub Division.		104.40		
c	Improvements of Roads and drains at Defense Colony and CQAL Layout at Kodigehalli Ward No. 08 (Kodigehalli), Kodigehalli Sub Division		1871.28		
f	Improvements of Roads and drains to Railway Track to Tatanagara BESCOM Office road at Kodigehalli Ward No. 08 (Kodigehalli), Kodigehalli Sub Division.		172.44		
g	Improvements of Roads and drains at Shanbog Narayanappa Layout at Kodigehalli Ward No. 08 (Kodigehalli), Kodigehalli Sub Division.		872.78		
5	**Providing and laying in position plain cement concrete of mix 1:3:6 with OPC cement @ 220kgs, with 40mm and down size graded granite metal coarse aggregates @ 0.892 cum and fine aggregates @ 0.465 cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation including cost of all materials, labour, HOM of machinery, curing complete as per specifications and as per the directions of the Engineer-in-charge of the work .**	**Cum**	**1249.30**	**5348.76**	**6682208.542**
a	Improvements to Roads and Drains in Kodigehalli Village Gramatana Ward No. 08 (Kodigehalli), Kodigehalli Sub Division.		334.82		
b	Improvements and development of parks at Kodigehalli Ward No. 08 (Kodigehalli), Kodigehalli Sub Division.		68.19		
d	Improvements of Roads and drains at Muneshwara Block at Kodigehalli Ward No. 08 (Kodigehalli), Kodigehalli Sub Division.		220.01		
e	Improvements of Roads and drains at Maruthinagara, Bhadrappa Layout at Kodigehalli Ward No. 08 (Kodigehalli), Kodigehalli Sub Division.		205.41		
f	Improvements of Roads and drains to Railway Track to Tatanagara BESCOM Office road at Kodigehalli Ward No. 08 (Kodigehalli), Kodigehalli Sub Division.		59.19		
g	Improvements of Roads and drains at Shanbog Narayanappa Layout at Kodigehalli Ward No. 08 (Kodigehalli), Kodigehalli Sub Division.		19.62		
h	Improvements of Roads and drains at Balaji Layout at Kodigehalli Ward No. 08 (Kodigehalli), Kodigehalli Sub Division.		122.90		
i	Improvements of Roads and drains at Lottegollahalli at Kodigehalli Ward No. 08 (Kodigehalli), Kodigehalli Sub Division.		94.42		

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j	Improvements of Roads and drains at B.B.Nagara at Kodigehalli Ward No. 08 (Kodigehalli), Kodigehalli Sub Division.		47.85		
k	Improvements of Roads and drains at Kodigehalli Ward No. 08 (Kodigehalli), Kodigehalli Sub Division.		76.89		
6	**Providing laying plain/ reinforced cement concrete M20 Grade for Box Drain walls of thickness 10cm to 20cm including centering shuttering for work etc. complete as per approved drawing and design as per the directions of the Engineer-in-charge of the work .**	**Cum**	**1067.07**	**11032.48**	**11772456.01**
a	Improvements to Roads and Drains in Kodigehalli Village Gramatana Ward No. 08 (Kodigehalli), Kodigehalli Sub Division.		18.00		
d	Improvements of Roads and drains at Muneshwara Block at Kodigehalli Ward No. 08 (Kodigehalli), Kodigehalli Sub Division.		148.19		
e	Improvements of Roads and drains at Maruthinagara, Bhadrappa Layout at Kodigehalli Ward No. 08 (Kodigehalli), Kodigehalli Sub Division.		91.84		
f	Improvements of Roads and drains to Railway Track to Tatanagara BESCOM Office road at Kodigehalli Ward No. 08 (Kodigehalli), Kodigehalli Sub Division.		111.15		
g	Improvements of Roads and drains at Shanbog Narayanappa Layout at Kodigehalli Ward No. 08 (Kodigehalli), Kodigehalli Sub Division.		42.55		
h	Improvements of Roads and drains at Balaji Layout at Kodigehalli Ward No. 08 (Kodigehalli), Kodigehalli Sub Division.		256.75		
i	Improvements of Roads and drains at Lottegollahalli at Kodigehalli Ward No. 08 (Kodigehalli), Kodigehalli Sub Division.		172.87		
j	Improvements of Roads and drains at B.B.Nagara at Kodigehalli Ward No. 08 (Kodigehalli), Kodigehalli Sub Division.		59.36		
k	Improvements of Roads and drains at Kodigehalli Ward No. 08 (Kodigehalli), Kodigehalli Sub Division.		166.38		
7	**Providing TMT steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, palcing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining memebrs wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications and as per the directions of the Engineer-in-charge of the work .**	**Tonne**	**56.38**	**64243.42**	**3622044.02**
a	Improvements to Roads and Drains in Kodigehalli Village Gramatana Ward No. 08 (Kodigehalli), Kodigehalli Sub Division.		1.74		
d	Improvements of Roads and drains at Muneshwara Block at Kodigehalli Ward No. 08 (Kodigehalli), Kodigehalli Sub Division.		7.72		
e	Improvements of Roads and drains at Maruthinagara, Bhadrappa Layout at Kodigehalli Ward No. 08 (Kodigehalli), Kodigehalli Sub Division.		4.90		
f	Improvements of Roads and drains to Railway Track to Tatanagara BESCOM Office road at Kodigehalli Ward No. 08 (Kodigehalli), Kodigehalli Sub Division.		5.56		

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g	Improvements of Roads and drains at Shanbog Narayanappa Layout at Kodigehalli Ward No. 08 (Kodigehalli), Kodigehalli Sub Division.		2.47		
h	Improvements of Roads and drains at Balaji Layout at Kodigehalli Ward No. 08 (Kodigehalli), Kodigehalli Sub Division.		13.37		
i	Improvements of Roads and drains at Lottegollahalli at Kodigehalli Ward No. 08 (Kodigehalli), Kodigehalli Sub Division.		8.65		
j	Improvements of Roads and drains at B.B.Nagara at Kodigehalli Ward No. 08 (Kodigehalli), Kodigehalli Sub Division.		2.82		
k	Improvements of Roads and drains at Kodigehalli Ward No. 08 (Kodigehalli), Kodigehalli Sub Division.		9.15		
8	**Providing and fixing RCC Precast cover slab of 100mm thick for drain in cement concrete M20 using graded granite jelly 20mm and down size with steel reinforcement, including form work, lift charges, curing and concrete finished surfaces on both sides etc, complete and as per drawing and the directions of Engineer in-charge.**	**Cum**	**3152.55**	**1738.00**	**5479131.9**
d	Improvements of Roads and drains at Muneshwara Block at Kodigehalli Ward No. 08 (Kodigehalli), Kodigehalli Sub Division.		354.00		
e	Improvements of Roads and drains at Maruthinagara, Bhadrappa Layout at Kodigehalli Ward No. 08 (Kodigehalli), Kodigehalli Sub Division.		210.00		
f	Improvements of Roads and drains to Railway Track to Tatanagara BESCOM Office road at Kodigehalli Ward No. 08 (Kodigehalli), Kodigehalli Sub Division.		367.80		
g	Improvements of Roads and drains at Shanbog Narayanappa Layout at Kodigehalli Ward No. 08 (Kodigehalli), Kodigehalli Sub Division.		225.00		
h	Improvements of Roads and drains at Balaji Layout at Kodigehalli Ward No. 08 (Kodigehalli), Kodigehalli Sub Division.		117.00		
i	Improvements of Roads and drains at Lottegollahalli at Kodigehalli Ward No. 08 (Kodigehalli), Kodigehalli Sub Division.		467.25		
j	Improvements of Roads and drains at B.B.Nagara at Kodigehalli Ward No. 08 (Kodigehalli), Kodigehalli Sub Division.		1078.50		
k	Improvements of Roads and drains at Kodigehalli Ward No. 08 (Kodigehalli), Kodigehalli Sub Division.		333.00		
9	**Providing and fixing RCC Precast cover slab of 250mm thick for drain in cement concrete M20 using graded granite jelly 20mm and down size with steel reinforcement, including form work, lift charges, curing and concrete finished surfaces on both sides etc, complete and as per drawing and the directions of Engineer in-charge**	**Cum**	**260.71**	**4951.00**	**1290775.21**
a	Improvements to Roads and Drains in Kodigehalli Village Gramatana Ward No. 08 (Kodigehalli), Kodigehalli Sub Division.		22.40		
d	Improvements of Roads and drains at Muneshwara Block at Kodigehalli Ward No. 08 (Kodigehalli), Kodigehalli Sub Division.		21.06		

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e	Improvements of Roads and drains at Maruthinagara, Bhadrappa Layout at Kodigehalli Ward No. 08 (Kodigehalli), Kodigehalli Sub Division.		21.00		
f	Improvements of Roads and drains to Railway Track to Tatanagara BESCOM Office road at Kodigehalli Ward No. 08 (Kodigehalli), Kodigehalli Sub Division.		30.24		
g	Improvements of Roads and drains at Shanbog Narayanappa Layout at Kodigehalli Ward No. 08 (Kodigehalli), Kodigehalli Sub Division.		19.50		
h	Improvements of Roads and drains at Balaji Layout at Kodigehalli Ward No. 08 (Kodigehalli), Kodigehalli Sub Division.		36.36		
i	Improvements of Roads and drains at Lottegollahalli at Kodigehalli Ward No. 08 (Kodigehalli), Kodigehalli Sub Division.		43.20		
j	Improvements of Roads and drains at B.B.Nagara at Kodigehalli Ward No. 08 (Kodigehalli), Kodigehalli Sub Division.		18.20		
k	Improvements of Roads and drains at Kodigehalli Ward No. 08 (Kodigehalli), Kodigehalli Sub Division.		48.75		
10	**Excavation for roadwork in soil with hydraulic excavator of 0.90 cum bucket capacity including cutting and loading in tippers, trimming bottom and side slopes, in accordance with requirements of lines, grades and cross sections, and transporting to embankment location and complete as per specifications and as per the directions of the Engineer-in-charge of the work .**	**Cum**	**1633.78**	**48.76**	**79663.13718**
a	Improvements to Roads and Drains in Kodigehalli Village Gramatana Ward No. 08 (Kodigehalli), Kodigehalli Sub Division.		321.42		
b	Improvements and development of parks at Kodigehalli Ward No. 08 (Kodigehalli), Kodigehalli Sub Division.		240.91		
d	Improvements of Roads and drains at Muneshwara Block at Kodigehalli Ward No. 08 (Kodigehalli), Kodigehalli Sub Division.		199.46		
e	Improvements of Roads and drains at Maruthinagara, Bhadrappa Layout at Kodigehalli Ward No. 08 (Kodigehalli), Kodigehalli Sub Division.		28.29		
f	Improvements of Roads and drains to Railway Track to Tatanagara BESCOM Office road at Kodigehalli Ward No. 08 (Kodigehalli), Kodigehalli Sub Division.		26.21		
g	Improvements of Roads and drains at Shanbog Narayanappa Layout at Kodigehalli Ward No. 08 (Kodigehalli), Kodigehalli Sub Division.		18.77		
h	Improvements of Roads and drains at Balaji Layout at Kodigehalli Ward No. 08 (Kodigehalli), Kodigehalli Sub Division.		79.45		
j	Improvements of Roads and drains at B.B.Nagara at Kodigehalli Ward No. 08 (Kodigehalli), Kodigehalli Sub Division.		41.68		
k	Improvements of Roads and drains at Kodigehalli Ward No. 08 (Kodigehalli), Kodigehalli Sub Division.		677.60		

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11	**Providing and constructing granite size stone masonry in foundation cement mortor 1:6, stone hammered dressed in courses not less than 20cms high, bond stones at 2m. apart in each course including cost of materaials, labour, curing complete as per specifications and as per the directions of the Engineer-in-charge of the work .**	**Cum**	**379.19**	**4438.22**	**1682929.751**
b	Improvements and development of parks at Kodigehalli Ward No. 08 (Kodigehalli), Kodigehalli Sub Division.		269.16		
f	Improvements of Roads and drains to Railway Track to Tatanagara BESCOM Office road at Kodigehalli Ward No. 08 (Kodigehalli), Kodigehalli Sub Division.		23.18		
i	Improvements of Roads and drains at Lottegollahalli at Kodigehalli Ward No. 08 (Kodigehalli), Kodigehalli Sub Division.		24.48		
j	Improvements of Roads and drains at B.B.Nagara at Kodigehalli Ward No. 08 (Kodigehalli), Kodigehalli Sub Division.		43.17		
k	Improvements of Roads and drains at Kodigehalli Ward No. 08 (Kodigehalli), Kodigehalli Sub Division.		19.20		
12	**Providing and constructing granite / trap / basalt size stone masonry in basement with cement mortar 1:6, edges of stones chistle dressed in courses not less than 15 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications and as per the directions of the Engineer-in-charge of the work .**	**Cum**	**108.57**	**5305.30**	**575980.5051**
b	Improvements and development of parks at Kodigehalli Ward No. 08 (Kodigehalli), Kodigehalli Sub Division.		108.57		
13	**Providing flush pointing to square rubble, course or uncoursed stone masonry with cement mortar 1:3, 20mm deep, after raking joints to depth of 20mm nicely lining, including cost of materials, labour, curing complete as per specifications and as per the directions of the Engineer-in-charge of the work .**	**Sqm**	**752.79**	**102.82**	**77401.8678**
b	Improvements and development of parks at Kodigehalli Ward No. 08 (Kodigehalli), Kodigehalli Sub Division.		430.65		
f	Improvements of Roads and drains to Railway Track to Tatanagara BESCOM Office road at Kodigehalli Ward No. 08 (Kodigehalli), Kodigehalli Sub Division.		38.64		
i	Improvements of Roads and drains at Lottegollahalli at Kodigehalli Ward No. 08 (Kodigehalli), Kodigehalli Sub Division.		40.80		
j	Improvements of Roads and drains at B.B.Nagara at Kodigehalli Ward No. 08 (Kodigehalli), Kodigehalli Sub Division.		210.70		
k	Improvements of Roads and drains at Kodigehalli Ward No. 08 (Kodigehalli), Kodigehalli Sub Division.		32.00		

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14	**Providing and laying in position plain cement concrete of mix 1:2:4 with cement @ 240kgs, with 20mm and down size graded granite metal coarse aggregates @ 0.878 cum and fine aggregates @ 0.530 cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation and plinth, including cost of all materials, labour, HOM of machinery, curing complete as per specifications and as per the directions of the Engineer-in-charge of the work .**	**Cum**	**50.68**	**5767.46**	**292286.2216**
b	Improvements and development of parks at Kodigehalli Ward No. 08 (Kodigehalli), Kodigehalli Sub Division.		37.57		
f	Improvements of Roads and drains to Railway Track to Tatanagara BESCOM Office road at Kodigehalli Ward No. 08 (Kodigehalli), Kodigehalli Sub Division.		2.02		
i	Improvements of Roads and drains at Lottegollahalli at Kodigehalli Ward No. 08 (Kodigehalli), Kodigehalli Sub Division.		2.88		
j	Improvements of Roads and drains at B.B.Nagara at Kodigehalli Ward No. 08 (Kodigehalli), Kodigehalli Sub Division.		7.25		
k	Improvements of Roads and drains at Kodigehalli Ward No. 08 (Kodigehalli), Kodigehalli Sub Division.		0.96		
15	**Construction of Embankment with Material Gravel/ Murrum. KSRRB M300-53. Construction of embankment with approved material Gravel/Murrum with all lifts and leads, transporting to site, spreading, grading to required slope and compacting to meet requirement Table 300- 2 complete as per specifications.(Including cost of gravel / murrum, watering charges & compaction by vibratory roller to 95% of proctors density) as per specifications and as per the directions of the Engineer-in-charge of the work .**	**Cum**	**600.60**	**320.12**	**192264.072**
g	Improvements of Roads and drains at Shanbog Narayanappa Layout at Kodigehalli Ward No. 08 (Kodigehalli), Kodigehalli Sub Division.		423.00		
k	Improvements of Roads and drains at Kodigehalli Ward No. 08 (Kodigehalli), Kodigehalli Sub Division.		177.60		
16	**Providing,laying, spreading and compacting crushed stone aggregates of granite/trap/ basalt to wet mix macadam specification including pre mixing the Material with water at OMC in mechanical mix plant carriage of mixed material by tipper to site, laying in uniform layers with paver in sub-base/ base course on well prepared surface and compacting with vibratory roller to achieve the desired density. complete as per specifications and as per the directions of the Engineer-in-charge of the work .**	**Cum**	**1497.53**	**1768.08**	**2647754.61**
b	Improvements and development of parks at Kodigehalli Ward No. 08 (Kodigehalli), Kodigehalli Sub Division.		**112.06**		
c	Improvements of Roads and drains at Defense Colony and CQAL Layout at Kodigehalli Ward No. 08 (Kodigehalli), Kodigehalli Sub Division		**240.91**		

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e	Improvements of Roads and drains at Maruthinagara, Bhadrappa Layout at Kodigehalli Ward No. 08 (Kodigehalli), Kodigehalli Sub Division.		7.59		
f	Improvements of Roads and drains to Railway Track to Tatanagara BESCOM Office road at Kodigehalli Ward No. 08 (Kodigehalli), Kodigehalli Sub Division.		26.21		
g	Improvements of Roads and drains at Shanbog Narayanappa Layout at Kodigehalli Ward No. 08 (Kodigehalli), Kodigehalli Sub Division.		294.77		
h	Improvements of Roads and drains at Balaji Layout at Kodigehalli Ward No. 08 (Kodigehalli), Kodigehalli Sub Division.		74.75		
j	Improvements of Roads and drains at B.B.Nagara at Kodigehalli Ward No. 08 (Kodigehalli), Kodigehalli Sub Division.		13.80		
k	Improvements of Roads and drains at Kodigehalli Ward No. 08 (Kodigehalli), Kodigehalli Sub Division.		727.45		
17	**Scarifying bituminous course 50mm to 75mm thick along with premix carpet / surface dressing by road roller attached with scarifier without disturbing the base and stacking the debris including cost of all labour charges, HOM of machineries complete as per specifications and as per the directions of the Engineer-in-charge of the work .**	**Sqm**	**2521.50**	**30.74**	**77510.91**
g	Improvements of Roads and drains at Shanbog Narayanappa Layout at Kodigehalli Ward No. 08 (Kodigehalli), Kodigehalli Sub Division.		1200.00		
k	Improvements of Roads and drains at Kodigehalli Ward No. 08 (Kodigehalli), Kodigehalli Sub Division.		1321.50		
18	**Providing and applying primer coat with SS bitumen emulsion on prepared surface of granular Base such as WBM WMM including clearing of road surface and spraying primer at the rate of 0.60 kglsqm using mechanical means complete as per specifications and as per the directions of the Engineer-in-charge of the work .**	**Sqm**	**5876.50**	**27.56**	**161956.34**
c	Improvements of Roads and drains at Defense Colony and CQAL Layout at Kodigehalli Ward No. 08 (Kodigehalli), Kodigehalli Sub Division		1047.45		
e	Improvements of Roads and drains at Maruthinagara, Bhadrappa Layout at Kodigehalli Ward No. 08 (Kodigehalli), Kodigehalli Sub Division.		33.00		
f	Improvements of Roads and drains to Railway Track to Tatanagara BESCOM Office road at Kodigehalli Ward No. 08 (Kodigehalli), Kodigehalli Sub Division.		113.95		
g	Improvements of Roads and drains at Shanbog Narayanappa Layout at Kodigehalli Ward No. 08 (Kodigehalli), Kodigehalli Sub Division.		1281.60		
h	Improvements of Roads and drains at Balaji Layout at Kodigehalli Ward No. 08 (Kodigehalli), Kodigehalli Sub Division.		325.00		
j	Improvements of Roads and drains at B.B.Nagara at Kodigehalli Ward No. 08 (Kodigehalli), Kodigehalli Sub Division.		60.00		
k	Improvements of Roads and drains at Kodigehalli Ward No. 08 (Kodigehalli), Kodigehalli Sub Division.		3015.50		

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19	**Providing and laying dense graded bituminous macadam using crushed aggregates of specified grading, premixed with VG30 grade bituminous binder and, transporting the hot mix to work site, laying to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MORTH table 500-10 complete in all respects complete as per specifications.. MORTH Specification No. 507 - using 40/60 TPH capacity H.M.P. with Mechanical paver Gr-II (50 mm to 75 mm) with 4.5 % VG-30 Bitumen as per the directions of the Engineer-in-charge of the work .**	**Cum**	**406.38**	**7120.02**	**2893398.128**
c	Improvements of Roads and drains at Defense Colony and CQAL Layout at Kodigehalli Ward No. 08 (Kodigehalli), Kodigehalli Sub Division		195.60		
g	Improvements of Roads and drains at Shanbog Narayanappa Layout at Kodigehalli Ward No. 08 (Kodigehalli), Kodigehalli Sub Division.		60.00		
k	Improvements of Roads and drains at Kodigehalli Ward No. 08 (Kodigehalli), Kodigehalli Sub Division.		150.78		
20	**Cleaning the existing black topped surface with brooms,soft brushes and finally dusting with old gunny bags and/or compressed air to receive bituminous treatment including cost of all materials,labhour, HOM of machineries complete as per specifications and as per the directions of the Engineer-in-charge of the work .**	**Sqm**	**28585.10**	**3.18**	**90900.618**
c	Improvements of Roads and drains at Defense Colony and CQAL Layout at Kodigehalli Ward No. 08 (Kodigehalli), Kodigehalli Sub Division		15771.75		
e	Improvements of Roads and drains at Maruthinagara, Bhadrappa Layout at Kodigehalli Ward No. 08 (Kodigehalli), Kodigehalli Sub Division.		2500.50		
f	Improvements of Roads and drains to Railway Track to Tatanagara BESCOM Office road at Kodigehalli Ward No. 08 (Kodigehalli), Kodigehalli Sub Division.		4351.45		
g	Improvements of Roads and drains at Shanbog Narayanappa Layout at Kodigehalli Ward No. 08 (Kodigehalli), Kodigehalli Sub Division.		3279.90		
h	Improvements of Roads and drains at Balaji Layout at Kodigehalli Ward No. 08 (Kodigehalli), Kodigehalli Sub Division.		1111.50		
j	Improvements of Roads and drains at B.B.Nagara at Kodigehalli Ward No. 08 (Kodigehalli), Kodigehalli Sub Division.		1570.00		
21	**Providing and applying tack coat using 80/100 grade bitumen (VG10) on prepared black topped surfaces at 2.5 Kg per 10 sqm, heating bitumen in boiler fitted with spray set (excluding cleaning of road surface) including cost of all materials, labour, HOM of machineries complete as per specifications and as per the directions of the Engineer-in-charge of the work .**	**Sqm**	**41293.10**	**12.72**	**525248.232**
c	Improvements of Roads and drains at Defense Colony and CQAL Layout at Kodigehalli Ward No. 08 (Kodigehalli), Kodigehalli Sub Division		19435.20		

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e	Improvements of Roads and drains at Maruthinagara, Bhadrappa Layout at Kodigehalli Ward No. 08 (Kodigehalli), Kodigehalli Sub Division.		2533.50		
f	Improvements of Roads and drains to Railway Track to Tatanagara BESCOM Office road at Kodigehalli Ward No. 08 (Kodigehalli), Kodigehalli Sub Division.		4465.40		
g	Improvements of Roads and drains at Shanbog Narayanappa Layout at Kodigehalli Ward No. 08 (Kodigehalli), Kodigehalli Sub Division.		5761.50		
h	Improvements of Roads and drains at Balaji Layout at Kodigehalli Ward No. 08 (Kodigehalli), Kodigehalli Sub Division.		1436.50		
j	Improvements of Roads and drains at B.B.Nagara at Kodigehalli Ward No. 08 (Kodigehalli), Kodigehalli Sub Division.		1630.00		
k	Improvements of Roads and drains at Kodigehalli Ward No. 08 (Kodigehalli), Kodigehalli Sub Division.		6031.00		
22	**Providing and laying bituminous concrete 30-40 mm compacted thickness with VG30 Bitumen grade using 40-60 HMP using crushed aggregates of grading II, premixed with bituminous binder at 5.4% of mix and filler, transporting the hot mix to work site, laying with a mechanical paver finisher to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction complete in all respects as per specifications and as per the directions of the Engineer-in-charge of the work .**	**Cum**	**1348.94**	**8118.54**	**10951455.82**
c	Improvements of Roads and drains at Defense Colony and CQAL Layout at Kodigehalli Ward No. 08 (Kodigehalli), Kodigehalli Sub Division		646.85		
e	Improvements of Roads and drains at Maruthinagara, Bhadrappa Layout at Kodigehalli Ward No. 08 (Kodigehalli), Kodigehalli Sub Division.		97.74		
f	Improvements of Roads and drains to Railway Track to Tatanagara BESCOM Office road at Kodigehalli Ward No. 08 (Kodigehalli), Kodigehalli Sub Division.		178.62		
g	Improvements of Roads and drains at Shanbog Narayanappa Layout at Kodigehalli Ward No. 08 (Kodigehalli), Kodigehalli Sub Division.		182.46		
h	Improvements of Roads and drains at Balaji Layout at Kodigehalli Ward No. 08 (Kodigehalli), Kodigehalli Sub Division.		57.46		
j	Improvements of Roads and drains at B.B.Nagara at Kodigehalli Ward No. 08 (Kodigehalli), Kodigehalli Sub Division.		65.20		
k	Improvements of Roads and drains at Kodigehalli Ward No. 08 (Kodigehalli), Kodigehalli Sub Division.		120.62		
23	**Road Marking with Hot Applied Thermoplastic Compound with Reflectrising Glass Beads on Bituminous Surface:- Providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads at 250 gms per sqm area, thickness of 2.5 mm is exclusive of surface applied glass beads as per IRC:35. The finished surface to be level, uniform and free from streaks and holes complete as per specifications and as per the directions of the Engineer-in-charge of the work .**	**Sqm**	**1102.38**	**542.72**	**598280.96**

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c	Improvements of Roads and drains at Defense Colony and CQAL Layout at Kodigehalli Ward No. 08 (Kodigehalli), Kodigehalli Sub Division		503.80		
e	Improvements of Roads and drains at Maruthinagara, Bhadrappa Layout at Kodigehalli Ward No. 08 (Kodigehalli), Kodigehalli Sub Division.		89.60		
f	Improvements of Roads and drains to Railway Track to Tatanagara BESCOM Office road at Kodigehalli Ward No. 08 (Kodigehalli), Kodigehalli Sub Division.		165.20		
g	Improvements of Roads and drains at Shanbog Narayanappa Layout at Kodigehalli Ward No. 08 (Kodigehalli), Kodigehalli Sub Division.		155.00		
h	Improvements of Roads and drains at Balaji Layout at Kodigehalli Ward No. 08 (Kodigehalli), Kodigehalli Sub Division.		53.40		
j	Improvements of Roads and drains at B.B.Nagara at Kodigehalli Ward No. 08 (Kodigehalli), Kodigehalli Sub Division.		66.00		
k	Improvements of Roads and drains at Kodigehalli Ward No. 08 (Kodigehalli), Kodigehalli Sub Division.		69.38		
24	**Cement concrete pavement.Construction of un-reinforced plain cement concrete pavement, thickness as per design, over a prepared sub base with OPC cement or any other type as per clause 1051.2.2 design mix M20/M30 , with 25mm and down size graded granite metal coarse aggregates and fine aggregtes , with superplastisiser @3lts confirming to IS9103-1999 Reaffirmed-2008 , mixed in a concrete mixer of not less than 0.6 cum capacity and appropriate weigh batcher as per approved mix design, laid in approved fixed side form work (steel channel, laying and fixing of 125 micron thick polythene film, wedges, steel plates including levelling the form work as per drawing). Spreading the concrete with shovels, rackers compacted using needle, screed and plate vibrator and finished in a continuous operation including provision of contraction, expansion, construction and longitudinal joints including groove cutting charges, joint filler, separation membrane, selant primer, joint sealant, admixtures as approved, curing compound, finishing to lines and grades as per drawing complete as per specifications and as per the directions of the Engineer-in-charge of the work .**	**Cum**	**572.15**	**6217.96**	**3557605.814**
a	Improvements to Roads and Drains in Kodigehalli Village Gramatana Ward No. 08 (Kodigehalli), Kodigehalli Sub Division.		323.45		
d	Improvements of Roads and drains at Muneshwara Block at Kodigehalli Ward No. 08 (Kodigehalli), Kodigehalli Sub Division.		99.73		
e	Improvements of Roads and drains at Maruthinagara, Bhadrappa Layout at Kodigehalli Ward No. 08 (Kodigehalli), Kodigehalli Sub Division.		128.88		
j	Improvements of Roads and drains at B.B.Nagara at Kodigehalli Ward No. 08 (Kodigehalli), Kodigehalli Sub Division.		20.10		

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25	**Vaccum de-watering with vaccum pump and suction mat and compaction with skin floater clubbed with floating disc including cost of generator, HOM of machinery, Screed Vibratory, Power Floater, blade and disc etc., with all lead and lift as per the directions of the Engineer-in-charge of the work .**	**Sqm**	**5513.75**	**95.40**	**526011.75**
a	Improvements to Roads and Drains in Kodigehalli Village Gramatana Ward No. 08 (Kodigehalli), Kodigehalli Sub Division.		3234.50		
d	Improvements of Roads and drains at Muneshwara Block at Kodigehalli Ward No. 08 (Kodigehalli), Kodigehalli Sub Division.		997.30		
e	Improvements of Roads and drains at Maruthinagara, Bhadrappa Layout at Kodigehalli Ward No. 08 (Kodigehalli), Kodigehalli Sub Division.		1081.00		
j	Improvements of Roads and drains at B.B.Nagara at Kodigehalli Ward No. 08 (Kodigehalli), Kodigehalli Sub Division.		200.95		
26	**Dismantling of existing structures like culverts, bridges, retaining walls and other structure comprising of masonry, cement concrete, wood work, steel work, including T&P and scaffolding wherever necessary, sorting the dismantled material, disposal of unserviceable material and stacking the serviceable material with all lifts complete as per specifications. i) Lime /Cement Concrete. I. By Manual Means :B. Cement Concrete Grade M-15 & M-20.as per the directions of the Engineer-in-charge of the work .**	**Cum**	**483.92**	**513.19**	**248344.1878**
a	Improvements to Roads and Drains in Kodigehalli Village Gramatana Ward No. 08 (Kodigehalli), Kodigehalli Sub Division.		285.41		
d	Improvements of Roads and drains at Muneshwara Block at Kodigehalli Ward No. 08 (Kodigehalli), Kodigehalli Sub Division.		21.00		
e	Improvements of Roads and drains at Maruthinagara, Bhadrappa Layout at Kodigehalli Ward No. 08 (Kodigehalli), Kodigehalli Sub Division.		162.15		
h	Improvements of Roads and drains at Balaji Layout at Kodigehalli Ward No. 08 (Kodigehalli), Kodigehalli Sub Division.		6.38		
j	Improvements of Roads and drains at B.B.Nagara at Kodigehalli Ward No. 08 (Kodigehalli), Kodigehalli Sub Division.		6.89		
k	Improvements of Roads and drains at Kodigehalli Ward No. 08 (Kodigehalli), Kodigehalli Sub Division.		2.10		

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27	**Providing and laying heavy duty cobble stones 60mm thick interlock pavers, using cement and course sand for manufacture of blocks of approved size, shape and colour with a minimum compressive strength of 281 kg per sqm over 50mm thick sand bed (average thickness) and compacting with plate vibrator having 3 tons compaction force thereby forcing part of sand underneath to come up in between joints, final compaction of paver surface joints into its final level, including cost of materials, labour and HOM of machineries complete as per specifications and as per the directions of the Engineer-in-charge of the work .**	**Sqm**	**420.00**	**966.72**	**406022.4**
b	Improvements and development of parks at Kodigehalli Ward No. 08 (Kodigehalli), Kodigehalli Sub Division.		420.00		
28	**Providing and fixing pre cast solid cement concrete kerb stones made out of CC 1:2:4 with top and bottom width 114 and 165 mm respectively, 400mm high and 450mm in length finished with CM 1:3 plastering and finishing cutting including formwork, curing, including cost of materials, labour charges of machinery, loading and unloading, lead and lift, transportation ete.,complete as per the directions of the Engineer-in-charge of the work .**	**Nos**	**3091.00**	**331.78**	**1025531.98**
b	Improvements and development of parks at Kodigehalli Ward No. 08 (Kodigehalli), Kodigehalli Sub Division.		747.00		
j	Improvements of Roads and drains at B.B.Nagara at Kodigehalli Ward No. 08 (Kodigehalli), Kodigehalli Sub Division.		1522.00		
k	Improvements of Roads and drains at Kodigehalli Ward No. 08 (Kodigehalli), Kodigehalli Sub Division.		822.00		
29	**Painting two coats after filling the surface with synthetic enamel paint in approved shades on new plastered concrete surfaces, with materials, labour complete as per specifications**	**Sqm**	**486.85**	**63.60**	**30963.66**
b	Improvements and development of parks at Kodigehalli Ward No. 08 (Kodigehalli), Kodigehalli Sub Division.		117.60		
j	Improvements of Roads and drains at B.B.Nagara at Kodigehalli Ward No. 08 (Kodigehalli), Kodigehalli Sub Division.		239.75		
k	Improvements of Roads and drains at Kodigehalli Ward No. 08 (Kodigehalli), Kodigehalli Sub Division.		129.50		
30	**Supplying and fixing M.S. Rectangular poles made out of 2 equal angles of 65x65x6 mm welded together and fixed in CC (1:2:4) WITH 2 NOS 16mm dia M.S. hold fast rods each of length 25 cms. Including cost of all materials cutting, bending scaffolding wherever necessary, nicely finishing the welded joints with all lead lifts and as per the directions of the Engineerin - charge of the work and including providing 2 coats of approved quality paint over one coat of shop painting (excluding cost of earthwork and concrete) as per the directions of the Engineer-in-charge of the work .**	**m**	**440.00**	**868.14**	**381981.6**

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b	Improvements and development of parks at Kodigehalli Ward No. 08 (Kodigehalli), Kodigehalli Sub Division.		440.00		
31	**Providing chain link fencing 50mm size of 8 guage properly stretched between existing rectangular poles and fixed with suitable bolts & nuts, the free ends shall be welded to the pole and block pipe at top and bottom as required including cost of all materials, labour, lead and lifts and as per the directions of the Engineer-in-charge of work including two coats of approved quality paint over one coat of shop paint as per the directions of the Engineer-in-charge of the work .**	**Sqm**	**957.00**	**698.54**	**668502.78**
b	Improvements and development of parks at Kodigehalli Ward No. 08 (Kodigehalli), Kodigehalli Sub Division.		957.00		
32	**Providing and fixing M.S. Block pipe of 38mm dia, of heavy guage of 14 including removing the bends, cutting the pipe, and fixing pipe in between the existing two verticle poles (M.S. rectangular poles) and spot welding the chain link with M.S. block pipe including cost of all materials wastage in cutting, and scaffolding wherever necessary with all lead and lift as directed by the Engineer-in-charge of work etc., complete including two coats of approved quality paint over one coat of shop paint as per the directions of the Engineer-in-charge of the work .**	**m**	**469.00**	**343.44**	**161073.36**
b	Improvements and development of parks at Kodigehalli Ward No. 08 (Kodigehalli), Kodigehalli Sub Division.		469.00		
33	**Fabricating, providing and erecting in poiston of Hot dip galvanised M S Ornamental security Grill using 75 x 12mm M S Flat for alround frame work with verticals at the centre and horizontal centere support M S Square of 20 x20 mm of different heights as shown in the drawing are to be fixed at 16 cms C/C for suqare bars of full height and at 8cms C / C for bottom rods providg ornamental C I Designers at the botom and C I arrows inthe midle and top. The entire frame work is to be fixed by means of expansion bolts to the brick pillars with necesary drillling holes. the work includes providng two coats of enamel painting over one coatr of red lead ready mix primer coat etc complete cost of all labour, painting, erection charges using hoist pulleycranes with all lead and lift, loading, transporting and unloading using hoist pulley cranes, scaffolding charges and all other incidental charges required for successful completion fo the work as per specification and drawings as per the directions of the Engineer-in-charge of the work .**	**kg**	**20.00**	**9144.14**	**182882.8**
b	Improvements and development of parks at Kodigehalli Ward No. 08 (Kodigehalli), Kodigehalli Sub Division.		20.00		

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34	**Removing and resetting of footpath slab as per the directions of the Engineer-in-charge of the work .**	**Sqm**	**1005.60**	**132.50**	**133242**
f	Improvements of Roads and drains to Railway Track to Tatanagara BESCOM Office road at Kodigehalli Ward No. 08 (Kodigehalli), Kodigehalli Sub Division.		745.20		
j	Improvements of Roads and drains at B.B.Nagara at Kodigehalli Ward No. 08 (Kodigehalli), Kodigehalli Sub Division.		260.40		
35	**Dismantling of existing structures like culverts, bridges, retaining walls and other structure comprising of masonry, cement concrete, wood work, steel work, including T&P and scaffolding wherever necessary, sorting the dismantled material, disposal of unserviceable material and stacking the serviceable material with all lifts complete as per specifications. iii) Dismantling Stone Masonry.B. Rubble stone masonry in cement mortar as per the directions of the Engineer-in-charge of the work .**	**Sqm**	**68.40**	**375.39**	**25676.676**
j	Improvements of Roads and drains at B.B.Nagara at Kodigehalli Ward No. 08 (Kodigehalli), Kodigehalli Sub Division.		68.40		
36	**Providing and constructing granite size stone masonry in foundation cement mortor 1:6, stone hammered dressed in courses not less than 20cms high, bond stones at 2m. apart in each course including cost of materaials, labour, curing complete as per specifications (available stones) as per the directions of the Engineer-in-charge of the work .**	**Cum**	**43.20**	**2784.62**	**120295.584**
j	Improvements of Roads and drains at B.B.Nagara at Kodigehalli Ward No. 08 (Kodigehalli), Kodigehalli Sub Division.		43.20		
37	**Furnishing and Placing Reinforced/ Prestressed cement concrete in super-structure as per drawing and Technical Specification complete as per specifications. D. RCC / PSC with OPC cement design mix M35 @ 390kgs, with 20mm and down size graded granite metal coarse aggregates @0.68cum and fine aggregates @ 0.45cum, with superplastisiser @3lts confirming to IS9103-1999 Reaffirmed-2008, Case - II : Using Batching Plant, Transit Mixer & Concrete Pump as per the directions of the Engineer-in-charge of the work .**	**Cum**	**29.97**	**7382.90**	**221295.0446**
k	Improvements of Roads and drains at Kodigehalli Ward No. 08 (Kodigehalli), Kodigehalli Sub Division.		29.97		
38	**Supplying , fitting and placingTMT bar Fe 550 reinforcement in sub-structure complete as per drawing & technical specification complete as per the specification as per the directions of the Engineer-in-charge of the work .**	**Tonne**	**4.05**	**67205.06**	**272180.493**
k	Improvements of Roads and drains at Kodigehalli Ward No. 08 (Kodigehalli), Kodigehalli Sub Division.		4.05		

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39	**Construction of granular sub-base by providing close graded crushed stone aggregates of granite / trap / basalt material, mixing in a mechaical mix plant at OMC, carriage of mixed material to work site, spreading in uniform layers with motor grader on prepared surface and compacting with vibratory power roller to achieve the desired density, complete as per specifications. A. Plant Mix Method as per the directions of the Engineer-in-charge of the work .**	**Cum**	**254.10**	**1665.26**	**423142.566**
k	Improvements of Roads and drains at Kodigehalli Ward No. 08 (Kodigehalli), Kodigehalli Sub Division.		254.10		
				Sub Total	**62674488.31**
	Preperation of DPR And Project management Consultancy Charges(2% of estimated cost)				1280000
				Miscellenious and rounding	45512
				TOTAL AMOUNT	**64000000**
				RUPEES SIX CRORE AND FORTY LAKHS ONLY	

Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.

Executive Engineer
Byatarayanapura Division
Yalahanka Zone, B.B.M.P,
Bangalore-560092

Technical Sanction
Accorded for Rs 6.40 crore
Head of A/C P3158
CER NO: IS 33-43 Dt: 29/01/18

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